

ELMDENE

Protecting People & Property

Elmdene International Ltd
3 Keel Close, Interchange Park,
Portsmouth, Hampshire, PO3 5QD, UK

Tel: +44 (0)23 9269 6638
Fax: +44 (0)23 9266 0483
Web: www.elmdene.co.uk

12Vdc 12A Rack mount CCTV SMPSU

Model:
VRS1212000-18
18 x PTC Fused Outputs

- 1.5U 19" rack enclosure
- Universal mains input voltage 90-264Vac
- High efficiency electronics for reduced running costs and lower operating temperatures
- Continuous full rated current to load
- Channel 'Health' LED's on front panel
- Power 'On' indication
- Vented steel enclosure
- Can be rack, wall or desk mounted
- Individually self-resetting PTC Fused Outputs
- Supplied with mains IEC lead
- Full electronic short circuit and overload protection on load output
- Mains transient protection circuit
- Output screw terminals on rear of unit

FEATURES

The VRS1212000-18 is a 19" rack mounted, 12Vdc high efficiency cost effective power supply, ideal for use in CCTV applications. Housed within a 1.5U high enclosure it can provide up to 18 individually fused outputs protected by resettable PTC fuses. It features regulated 12.0Vdc Switch Mode Power Supply modules, continuously supplying full rated current to load, while the universal mains input voltage enables the power supply to be used across a wide geographical area. The highly efficient switch mode design generates less heat and ensures low operating costs. If not being installed within a rack environment there are fixing points for wall mounting or rubber feet for a desk mount option.

OPERATION

This unit is intended for use by Service Personnel only.

The Power LED will be illuminated whilst there is a mains supply, the 18 output channel LED's on the front panel indicate healthy channels.

INSTALLATION AND SET-UP

This unit is only suitable for installation as permanently connected equipment. The PSU is **NOT SUITABLE** for external installation. **EQUIPMENT MUST BE EARTHED**. Before installation, ensure that external disconnect device is **OFF**. The PSU should be installed according to all relevant safety regulations applicable to the application.

Mounting

1. For rack mounting, connect the two supplied rack mounting lugs using the 4 screws provided. If installing within a rack it is advised to allow airflow around the vented enclosure.
2. For wall mounting remove the PSU cover to access the keyhole fixing points; use the appropriate fixings for the mounting surface – replace the cover on completion.
3. For desk mounting fix the four supplied self-adhesive feet to the underside of the enclosure.

Mains Power Up

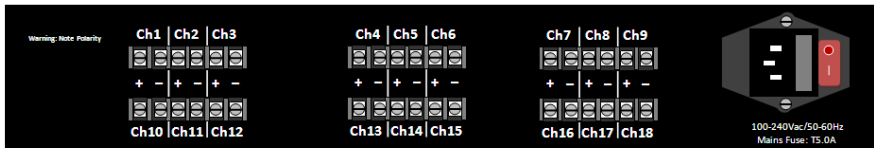
1. Attach the supplied IEC mains cable to a mains outlet socket providing power to the unit, ensure the rear input switch is turned on.
2. Check all 18 green output LED's are illuminated on the front panel.
3. Disconnect mains power.

Load Outputs

1. Attach correctly rated load cable to the provided screw output terminals. **Note polarity.**
2. Re-apply mains power.
3. Verify loads are operating correctly.



Front and Rear Panel Layouts

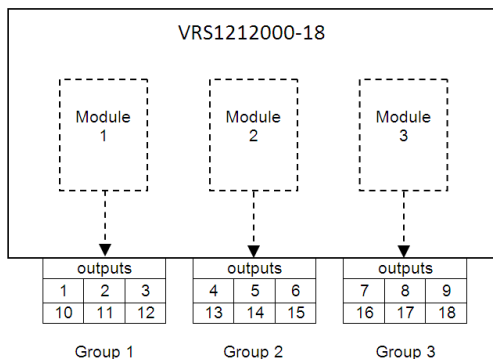


PTC Fuses

This unit uses PTC fuses – these fuses protect the power circuits from overcurrent, by ‘breaking’ the circuit as their trip current threshold has been reached. Once the fault has been removed (i.e. the short circuit removed) the fuse will automatically reset allowing the circuit to function as normal, without the need to gain access to the internal fuses.

Output Loading

- The PSU comprises of 3 individual internal power modules.
- Each module supplies a group of 6 outputs.
- Each module/group has a maximum capacity of 4A total current.
- Each group of outputs can supply up to 4A in any combination up to a maximum of 1.5A per single output.



	<i>Outputs 1 - 3 Output 10 - 12</i>	<i>Outputs 4 - 6 Output 13 - 15</i>	<i>Outputs 7 - 9 Output 16 - 18</i>
No. of Fused outputs:	6	6	6
Total Available Current: (across 6 channels)	4A	4A	4A
Max single channel:	1.5A	1.5A	1.5A

MAINTENANCE

There is no regular maintenance required of this PSU.

If an output of the PSU fails the cause of the failure should be investigated e.g. short circuit load. The fault should be rectified before re-attaching the load to the output.

DISPOSAL OF PRODUCT AT END OF LIFE

This product falls within the scope of EU Directives 2002/96/EC Waste Electrical and Electronic Equipment (WEEE). At the end of life, the product must be separated from the domestic waste stream and disposed via an appropriate approved WEEE disposal route in accordance with all national and local regulations.

For more information see: www.recyclethis.info

SPECIFICATION**Input Specification**

Voltage (rated)	100-240Vac
Voltage (operating)	90-264Vac
Frequency	50-60Hz
Mains Input Fuse (Input Connector)	T5.0A HRC
IEC Mains Plug Fuse	5A
Max Mains Input Current	3.6A

Output Specification

Voltage	11.4 – 12.6Vdc (12.0Vdc nominal)
Max load current (Total)	12A
Ripple	150 mV pk-pk max
Load output fuse type	PTC (resettable Polyfuse)
Overload	Electronic shutdown until overload or short circuit removed

Local Indicators

Power ON LED (Red)	Mains present
Output LED's 1-18 (Green)	Output 'Healthy'

Mechanical

Enclosure Dimensions	W437 x D215 x H70mm
Weight	2.3Kg

Environmental

Temperature	-10 to +40°C (operating) 95% RH non-condensing -20 to +80°C (storage)
-------------	--

COMPLIANCE

This product meets the essential requirements of the following EU Directives:

Low Voltage:	2006/95/EC
EMC:	2004/108/EC
RoHS:	2011/65/EU
WEEE:	2002/96/EC



*The packaging supplied with this product may be recycled.
Please dispose of packaging accordingly.*